Corrector Prototype Beamline Test Planning and Status
June 22, 2007 1:00 pm
Craig Drennan

Introduction:
As mentioned in the previous minutes, we are planning to do a pre-shutdown installation and full power test of a new corrector package into the booster. This would test not only the corrector package but all of the other associated power supplies and controls.

We hope to have everything in place by July 13, 2007.

**New: The cable pull for the corrector magnet power cables is expected to be done on a four hour "Controlled Access" using two controlled access qualified Booster persons as escorts. It will be helpful to have the electricians Rad Worker Qualified.

The minutes of the previous meetings can be found in the AD Document Database as Beams-doc-2792.

Please send any additions or corrections to these minutes to cdrennan@fnal.gov.

Those in attendance:
Craig Drennan, Joel Misek, Kent Triplett, Fernanda Garcia

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Next Meeting: June 29, 2007, 1:00 pm in the Penthouse West Booster Tower
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26. We now have 120 VAC in the West Tower racks. We are still waiting on the transformer to provide the 480 VAC.

27. The cable pull for the corrector magnet power cables is expected to be done on a four hour "Controlled Access" using two controlled access qualified Booster persons as escorts. It will be helpful to have the electricians Rad Worker Qualified.

28. In order to complete the prototype installation we will need a second 8 hour shutdown between July 9 and July 13 to accomplish the following tasks:

    a. Put in place a corrector package on a temporary stand with the final adjustment plate, to the side of the Booster beam line.
    b. Connection of the corrector package into the beam line / Booster vacuum
    c. Connect the magnet power cables to the corrector package.
    d. Connect the corrector to the LCW cooling water.
    e. Connect the BPM to the existing signal cables at Period 4.

f. Perform an alignment using the new adjustment plate and corrector alignment fixtures.

29. The stand and adjustment plate will be available on Monday, June 25. A BPM will have also been assembled complete with flanges and bellows and vacuum port adapter near the middle of next week. *We will be requesting another corrector package from the Technical Division for a full mechanical mock-up by the end of next week (6/29)*.

30. The HRM Chassis and VME Crate and modules have been tested in Mike Kucera's. Ethernet IP numbers are available and some communication cable will be pull very shortly.

31. The Camac crate has been installed and cables are being made to make the repeater connection. The Camac cards are available and ready for installation.

32. The full set of interconnecting cable assemblies for within the power supply rack are available and have been double checked. Some additional labeling will be performed as they are being installed.

Components we will need for the test.

__X__ Corrector Package.
Available

_____ Beam Position Monitor with bellows and flanges (fabricated in-house)
Current Estimate: June 27, 2007

_____ Corrector stand with adjustment plate assembly
Current Estimate: June 27, 2007

__X__ Power cables for magnets (including cable for Klixon)
Available

__X__ Cable tray for West Tower
Available

__X__ AC power disconnects, conduit, power strips, etc.
Available

_____ Power transformer and panel board for final AC hook-up.
Current Estimate: June 25, 2007

__X__ Components needed for the LCW connection.
Available

_____ 4 each 40 Amp Switch Mode Power Supplies.
Current Estimate: June 29, 2007

_____ 1 each 65 Amp Switch Mode Power Supply.
Current Estimate: June 29, 2007

_____ 1 each 2 Amp Switch Mode Power Supply.
Current Estimate: July 9, 2007

_____ Bulk power supply built in rack.
Current Estimate: July 9, 2007

_____ HRM Chassis and VME Crate and modules installed with ACNET Devices
Current Estimate: June 22, 2007

_____ CAMAC Crate and crate controller installed in rack.
Current Estimate: June 22, 2007

_____ Six C473 Ramp Cards installed with ACNET devices assigned.
Current Estimate: June 22, 2007

_____ Local cable assemblies for power supply control and status.
Current Estimate: June 27, 2007